

PRINTER RUSH

(PTO ASSISTANCE)

Application: 10/078,111 Examiner: D. MALZAHN GAU: 2193

From: R. MITCHELL Location: (IDC) FMF FDC Date: 1/19/06

Tracking #: EPM 10/078,111 Week Date: 7/18/05

DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449		<input type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS		<input type="checkbox"/> Foreign Priority
<input type="checkbox"/> CLM		<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW		<input type="checkbox"/> Fees
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<input type="checkbox"/> DRW		
<input type="checkbox"/> OATH		
<input type="checkbox"/> 312		
<input checked="" type="checkbox"/> SPEC	<u>2/20/02</u>	

[RUSH] MESSAGE: ① PAGE 7, LINE 29, CHARACTER AFTER (-) IS ILLEGIBLE IN THE SPECIFICATION.

② PAGE 63 IS MISSING LINES 1-7 IN THE SPECIFICATION.

THANK YOU
REM

[XRUSH] RESPONSE:

500 MISC. COMM.

Done

INITIALS: JM

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty's Docket: ABRAHAM=3

In re Application of:) Confirmation No. 4727
 Ziv ABRAHAM et al)
 Application No.: 10/078,111) Application Division
 Filing Date: February 20, 2002) Washington, D.C.
 For: GENERATION OF MASK-CONSTRAINED...) Date: February 3, 2006

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

U.S. Patent and Trademark Office
 Customer Service Window
 Randolph Building, Mail Stop Missing Parts
 401 Dulany Street
 Alexandria, VA 22314

The present communication is in response to the "NOTICE TO FILE CORRECTED APPLICATION PAPERS" dated January 31, 2006.

- [XX] Attached hereto as required by the Notice is/are:
 [] ___ substitute drawing sheets (Figures ___) in compliance with 37 C.F.R. §1.84.
 [XX] Pages 7 and 63.
 [] Also attached hereto is/are:
 [] Preliminary Amendment
 [] An Information Disclosure Statement with Form SB/08A and ___ references.
 [] Other documents: _____
 [] Applicant claims small entity status. See 37 C.F.R. §1.27.
 [] It is hereby petitioned for an extension of time in accordance with 37 C.F.R. §1.136(a). The appropriate fee required by 37 C.F.R. §1.17 is calculated as shown below:

Small Entity
 Response Filed Within

[] First - \$ 60.00
 [] Second - \$ 225.00
 [] Third - \$ 510.00
 [] Fourth - \$ 795.00
 [] Fifth - \$1080.00

month after time period set

Other Than Small Entity
 Response Filed Within

[] First - \$ 120.00
 [] Second - \$ 450.00
 [] Third - \$1020.00
 [] Fourth - \$1590.00
 [] Fourth - \$2160.00

month after time period set

- [XX] Conditional Petition for Extension of Time:
 If any extension of time for a response is required, applicant requests that this be considered a petition therefor.
 [] Credit Card Payment Form, PTO-2038, authorizing payment the amount of _____ is enclosed to cover the above fees.
 [XX] The Commissioner is hereby authorized and requested to charge any additional fees which may be required in connection with this application or credit any overpayment to Deposit Account No. 02-4035. This authorization and request is not limited to payment of all fees associated with this communication, including any Extension of Time fee, not covered by check or specific authorization, but is also intended to include all fees for the presentation of extra claims under 37 CFR §1.16 and all patent processing fees under 37 §CFR 1.17 throughout the prosecution of the case. This blanket authorization does not include patent issue fees under 37 CFR §1.18.

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UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Serial Number
10/078111

Date Mailed
1/31/06

NOTICE TO FILE CORRECTED APPLICATION PAPERS***Notice of Allowance Mailed***

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 30 days from the mail date of this Notice within which to correct the informalities indicated below. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136 (a) or (b).

- ♦ Page 7 Line 29 character after (-1)? Is illegible in the specification
- ♦ Page 63 is missing lines 1-7 in the specification. Fax legible information to number below or e-mail.
- o For status updates visit <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR System, contact the Electronic Business Center (EBC) toll free at 866-217-9197.

APPLICANT MUST SUPPLY MISSING INFORMATION WITHIN 30 DAYS OF THE MAIL DATE OF THIS NOTICE.

A copy of this notice MUST be returned with the reply. Please address response to Commissioner for Patents P.O. Box 1450
Alexandria, VA 22313-1450

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fraction bits to the right of the binary point. Even in implementations where the significand's leading bit (to the left of the binary point) is implied and is not explicitly present, the significand still includes that leading bit. Note that a significand differs from a "mantissa" in that a mantissa includes only the fraction field to the right of the binary point, whereas a significand also includes the bit to the left of the binary point. The concept of mantissa may be defined in such a way to include all of the bits of the significand, including the leftmost bit and not only the fraction bits. In this case and for a binary normalized significand, the mantissa would simply be the significand shifted one place to the right, or divided by a scaling factor of 2.

The Set of Machine Numbers

For purposes of illustration, a non-limiting example of a binary floating-point number system is the IEEE standard 754 previously referenced. We assume that three integer constants are given, E_{min} , E_{max} , p . The machine numbers are those which can be represented in the form $v = (-1)^s \times 2^E \times b_0 b_1 b_2 \dots b_{p-1}$, where $s \in \{0, 1\}$ represents the sign of v . E , representing the exponent of v , is an

Exceptional Case

5 As previously mentioned, there is an exceptional case where the exponent of $\underline{a} + \underline{b}$ is smaller by 1 than that of \underline{c} .

If the tails triplet chosen from Table 6 does not have any superscript it means that even if the generated
10 S_c is 1.00...0, there is no post-normalization. In this case, the result is correct and acceptable.

If, however, the tails triplet has a superscript and the fixed-point generator produces $S_c = 1.00...0$ then it means that some thing may be wrong with the result and it
15 is not certain that the produced S_a , S_b , and S_c satisfy $S_c = \text{round}(2^{-Qa}S_a + 2^{-Qb}S_b)$, as it should. This is discussed here in further detail.

If the superscript is 0 then the result is definitely wrong and cannot be corrected. In such a case, the result
20 should be discarded and the significands construction should be repeated.

If the superscript is 1 , it means that the result is in fact correct, and should be accepted.

If the superscript is 2 , it means that the c_3 part of
25 the tails should be constructed with care: Note that there are only two tails triplets with a superscript 2 , in the list: They are (0, 1, 1) and (1, 0, 1) in the round to nearest/even mode, with $C_p = 1$. Since the resulting S_c was 1.00...0 it means that the $p + 1$ first bits of the
30 exact sum were 011...1 and that c_3 should be concatenated to the right of this, in order to produce the complete

In re Appln. No. 10/078,111
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CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile
transmitted to the Patent and Trademark Office on the date
shown below.

Maureen Adams

Name

Maureen Adams

Signature

February 3, 2006

Date